

Application No.: 09/845946

Case No.: 56548US002

In the Claims:

Please amend [✓]claims 8, 9, 26, 27, 30, 31, 33, and 34 as follows:

1. (Original) A laminate having a projected surface area and a topographical surface area wherein the topographical surface area is greater than the projected surface area, and comprising:

a substrate comprising a polymeric film; and

a polymeric coating disposed on the substrate over substantially all of the topographical surface area of the laminate and comprising an ionic surface and one or more layers;

wherein at least one layer comprises at least one polymer made from 2-vinylpyridine, 3-vinylpyridine, 4-vinylpyridine, (3-acrylamidopropyl)trimethylammonium chloride, 2-diethylaminoethyl acrylate, 2-diethylaminoethyl methacrylate, 3-dimethylaminopropyl acrylate, 3-dimethylaminopropyl methacrylate, 2-aminoethyl methacrylate, dimethylaminoethyl acrylate, dimethylaminoethyl methacrylate, 2-acryloxyethyltrimethylammonium chloride, diallyldimethylammonium chloride, 2-methacryloxyethyltrimethylammonium chloride, 3-methacryloxy-2-hydroxypropyltrimethylammonium chloride, 3-aminopropylmethacrylamide, dimethylaminoethyl methacrylamide, dimethylaminopropyl acrylamide, 4-vinylbenzyltrimethylammonium chloride, 4-vinyl-1-methylpyridinium bromide, lysine, allylamine, vinylamine, nylons, chitosan, or any combination thereof.

2. (Original) The laminate of claim 1 further comprising a mask layer between the substrate and the polymeric coating.

3. (Original) The laminate of claim 1 further comprising a mask layer in direct contact with the substrate.

4. (Original) The laminate of claim 1 wherein the coating has a thickness from about 100 Å to about 50 µm.

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5. (Original) The laminate of claim 4 wherein the coating has a thickness from about 100 Å to about 30 µm.

6. (Original) The laminate of claim 5 wherein the coating has a thickness from about 100 Å to about 20 µm.

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7. (Original) The method of claim 1 wherein at least one layer comprises an amphoteric polymer.

8. (Currently Amended) A ~~composition~~ composite comprising:
the laminate of claim 1; and
one or more sample molecules affixed to the polymeric coating.

9. (Currently Amended) The ~~composition~~ composite of claim 8 wherein at least one sample molecule is a polypeptide, a polynucleotide, a polysaccharide, or any combination thereof.

10-22. (Withdrawn)

23. (Original) A laminate having a projected surface area and a topographical surface area wherein the topographical surface area is greater than the projected surface area, and comprising:

a substrate comprising a polymeric film;

a hydrogel disposed on the substrate; and

a coating disposed on the hydrogel over substantially all of the topographical surface area of the laminate, the coating comprising a cationic surface and one or more layers;

wherein at least one layer comprises at least one polymer made from 2-vinylpyridine, 3-vinylpyridine, 4-vinylpyridine, (3-acrylamidopropyl)trimethylammonium chloride, 2-diethylaminoethyl acrylate, 2-diethylaminoethyl methacrylate, 3-dimethylaminopropyl acrylate, 3-dimethylaminopropyl methacrylate, 2-aminoethyl methacrylate, dimethylaminoethyl acrylate, dimethylaminoethyl methacrylate, 2-acryloxyethyltrimethylammonium chloride,

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diallyldimethylammonium chloride, 2-methacryloxyethyltrimethylammonium chloride, 3-methacryloxy-2-hydroxypropyltrimethylammonium chloride, 3-aminopropylmethacrylamide, dimethylaminoethyl methacrylamide, dimethylaminopropyl acrylamide, 4-vinylbenzyltrimethylammonium chloride, 4-vinyl-1-methylpyridinium bromide, lysine, allylamine, vinylamine, nylons, chitosan, or any combination thereof.

24. (Original) The laminate of claim 23 wherein the hydrogel comprises one or more linking agents.

25. (Original) The laminate of claim 24 wherein the linking agents comprise azlactone copolymers.

26. (Currently Amended) A ~~composition~~ composite comprising:
the laminate of claim 23; and
one or more sample molecules affixed to the coating.

27. (Currently Amended) The ~~composition~~ composite of claim 26 wherein at least one sample molecule is a polypeptide, a polynucleotide, a polysaccharide, or any combination thereof.

28. (Original) A laminate having a projected surface area and a topographical surface area wherein the topographical surface area is greater than the projected surface area, and comprising:

- a substrate comprising a polymeric film;
- a hydrogel comprising at least one linking agent disposed on the substrate; and
- one or more bifunctional ionic molecules covalently linked to at least one linking agent.

29. (Original) The laminate of claim 28 wherein at least one bifunctional ionic molecule is an aminocarboxylic acid, an aminosulfonic acid, an aminophosphonic acid, an aminophosphoric acid, or a polyamine.

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30. (Currently Amended) A ~~composition~~ composite comprising:
the laminate of claim 28; and
one or more sample molecules affixed to the one or more bifunctional ionic molecules.

31. (Currently Amended) The ~~composition~~ composite of claim 30 wherein at least one sample molecule is a polypeptide, a polynucleotide, a polysaccharide, or any combination thereof.

32. (Original) A laminate having a projected surface area and a topographical surface area wherein the topographical surface area is greater than the projected surface area, and comprising:

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and
a substrate comprising a polymeric film;
a hydrogel disposed on the substrate and comprising one or more hydrolyzed azlactone moieties.

33. (Currently Amended) A ~~composition~~ composite comprising:
the laminate of claim 32; and
one or more sample molecules affixed to one or more hydrolyzed azlactone moieties.

34. (Currently Amended) The ~~composition~~ composite of claim 29 wherein at least one sample molecule is a polypeptide, a polynucleotide, a polysaccharide, or any combination thereof.
